GLASGOW UNIVERSITY CALENDAR.

The Glasgow University Calendar contains a history of the University, and an account of its present constitution and government; statements regarding the various Faculties and Classes; the Regulations and Subjects of Examination for Degrees in Arts, Science, Medicine, Law, and Divinity; the questions proposed to Candidates for Degrees; the annual Graduation and Prize Lists; and the Bursaries, Scholarships, Fellowships, and other Endowments of the University.

It also contains an abstract of the Proceedings of the University Court; a Statement of the Annual Income and Expenditure of the University; a List of the Members of the General Council; a List of the recognized Extra-Academical Lecturers; the Regulations of the University Local Examination Board; and notices of the various Students' Societies.

The Calendar is published by James MacLehose & Sons, 61 St. Vincent Street, Glasgow. Price 2s. 6d., by post 3s.

University of Glasgow,
April, 1889.

Programme of the Courses.

SESSION 1889-90.

The WINTER SESSION will be opened with an Introductory Address by PROFESSOR M'CALL ANDERSON, M.D., *on Tuesday, the 22nd October, 1889*, and will close *on Friday, the 28th March, 1890.*

Classes.	*Hours.*	*Class Fees.*	*Professors.*
ZOOLOGY,	9 a.m.	£3 3†	Prof. Young.
ZOOLOGICAL LABORATORY,	10 a.m. to 1 p.m.	3 3	Prof. Young.
BOTANICAL LABORATORY (Jan., Feb., March),	10 a.m.	2 2	Prof. Bower.
CLINICAL MEDICINE,	9 a.m.	(see p. 5)	Prof. M'Call Anderson, and Prof. Gairdner.
CLINICAL SURGERY,	9 a.m.	(see p. 5)	Prof. G. Buchanan, and Prof. Sir Geo. H. B. Macleod.
CHEMISTRY,	10 a.m.	3 3†	Prof. Ferguson.
CHEMICAL LABORATORY,	10 a.m. to 4 p.m.	10 10	Prof. Ferguson.
ANATOMY, Junior,	2 p.m.	3 3*	Prof. Cleland and Demonstrators.
ANATOMY, Senior,	11 a.m.	3 3*	Prof. Cleland and Demonstrators.
PRACTICAL ANATOMY,	9 a.m. to 4 p.m.	3 3	Prof. Cleland and Demonstrators.
PRACTICE OF MEDICINE,	11 a.m.	3 3*	Prof. Gairdner.
MATERIA MEDICA,	12 noon.	3 3*	Prof. Charteris.
INSTITUTES OF MEDICINE,	12 noon.	3 3*	Prof. M'Kendrick and Muirhead Demonstrator.
PHYSIOLOGICAL LABORATORY,	9 a.m. to 4 p.m.	——	Prof. M'Kendrick and Muirhead Demonstrator.
SURGERY,	1 p.m.	3 3*	Prof. Sir G. H. B. Macleod.
MIDWIFERY,	2 p.m.	3 3*	Prof. Leishman.
PATHOLOGY,	3 p.m.	(see p. 5)	——

The SUMMER SESSION (*1890*) will be opened *on 1st May*, and will close *on 25th July.*

Classes.	*Hours.*	*Class Fees.*	*Professors.*
BOTANY,	8 a.m.	£3 3*	Prof. Bower.
BOTANICAL LABORATORY,	9 a.m. to 4 p.m.	2 2	Prof. Bower.
BOTANICAL DEMONSTRATIONS,	——	——	Prof. Bower.
CLINICAL MEDICINE,	9 a.m.	(see p. 5)	Prof. M'Call Anderson and Prof. Gairdner.

* Fee for a Second Session, £2, 2s.; for a Third Session, £1, 1s.
† Fee for a Second Session £2, 2s.

Classes.	*Hours.*	*Class Fees.*	*Professors.*
CLINICAL SURGERY, - -	9 a.m.	(see p. 5)	Prof. G. Buchanan, and Prof. Sir G. H. B. Macleod.
PRACTICAL CHEMISTRY, -	9 to 11 a.m.	£3 3	Prof. Ferguson.
CHEMICAL LABORATORY, -	10 a.m. to 4 p.m.	5 5	Prof. Ferguson.
ORGANIC CHEMISTRY, -	- -	——	Prof. Ferguson.
ANATOMICAL LECTURES, -	11 a.m.	2 2	Prof. Cleland and Demonstrators.
PRACTICAL ANATOMY,	8 a.m. to 2 p.m.		Prof. Cleland and Demonstrators.
MEDICAL JURISPRUDENCE, -	11 a.m.	3 3*	Prof. Simpson.
ZOOLOGY LECTURES,† - -	12 noon.	3 3	Prof. Young.
ZOOLOGICAL LABORATORY,	10 a.m. to 1 p.m.	3 3	Prof. Young.
PRACTICAL MATERIA MEDICA,	12 noon.	3 3*	Prof. Charteris.
PRACTICAL PHYSIOLOGY,‡ -	12 noon.	3 3*	Prof. M'Kendrick and Muirhead Demonstrator.
PHYSIOLOGICAL LABORATORY,	9 a.m. to 4 p.m.	——	Prof. M'Kendrick and Muirhead Demonstrator.
PRACTICAL PATHOLOGY,‡ -	12 noon.	(see p. 5)	——
PRACTICE OF MEDICINE (Tu. and Thurs.),§ - - -	1 p.m.		Prof. Gairdner.
OPERATIVE SURGERY (Mon. Wed. Fri.), - - -	1 p.m.	2 2	Prof. Sir G. H. B. Macleod.
DISEASES OF WOMEN (Tu. Thurs. Fri.), - - -	2 p.m.	2 2	Prof. Leishman.
LECTURES ON THE EYE (Tu. and Th.), - - -	2 p.m.	2 2	Dr. T. Reid.
INSANITY, - Wed.,	12 noon (University)	2 2	Dr. Yellowlees.
,, Sat.,	10 a.m. (Gartnavel)		Dr. Yellowlees.

In addition to the University Courses, the following Hospitals and Dispensaries afford ample means for Practical Instruction in the various departments of Medicine and Surgery :—

WESTERN INFIRMARY.—This Hospital contains 400 beds for Medical and Surgical Patients, including Wards for Skin Diseases, and one for diseases peculiar to females. *Physicians*—Professor W. T. GAIRDNER, M.D.; Professor T. M'CALL ANDERSON, M.D.; JAMES FINLAYSON, M.D.; GAVIN P. TENNENT, M.D. *Assistant Physicians*—JOSEPH COATS, M.D.; JAMES CHRISTIE, M.D.; D. C. M'VAIL, M.B. *Diseases of Women*—Professor W. LEISHMAN, M.D. *Surgeons*—Prof. SIR GEORGE H. B. MACLEOD, M.D.; Professor GEORGE BUCHANAN, M.D.; A. PATTERSON, M.D.; HECTOR C. CAMERON, M.D. *Honorary Consulting*

* Fee for a Second Session, £2, 2s.; for a Third Session, £1, 1s.

† This Course of Lectures in Zoology, as well as that given during the Winter Session, qualifies for graduation.

‡ After first Lecture, the Class will meet in three divisions, 8 to 9 A.M., 11 A.M. to 12 noon, and 12 noon to 1 P.M.

§ Open to all matriculated students of the University who have completed their Second Winter of medical study. This course is supplementary to the Winter course, and takes up special subjects to be announced in the Summer bills.

Ophthalmic Surgeon—T. Reid, M.D. *Dispensary Physicians*—John Alexander, M.D.; William G. Dun, M.D.; R. Stevenson Thomson, M.B.; George Dickson, M.D.; C. O. Hawthorne, M.B. *Dispensary Physicians for Diseases of Women*—W. L. Reid, M.D.; Robert Kirk, M.D.; Murdoch Cameron, M.D. *Dispensary Surgeons*—J. C. Renton, M.D.; Geo. T. Beatson, M.D.; David Newman, M.D. *Extra Dispensary Surgeons*—A. Ernest Maylard, M.B., B.S.; James Parker, M.D. *Dispensary Surgeon for Diseases of the Ear*—Thomas Barr, M.D. *Dispensary Surgeon for Diseases of the Throat*—J. Walker Downie, M.D. *Surgeon Dentist*—W. D. Woodburn, L.D.S. *Pathologist*—Joseph Coats, M.D. *Vaccinator*—D. C. M'Vail, M.B. *Medical Superintendent*—A. W. Russell, M.A., M.B. *Lady Superintendent*—Miss E. Clyde. *Secretary*—Henry Johnston, 125 Buchanan Street. The hour of visit is 9 a.m. The Dispensary for Out-Patients is open daily at 2 p.m. Vaccination—Mondays at 12 noon. The station is recognized by the Local Government Board. Fee £1, 1s. According to the present arrangement admission to the practice of this Infirmary is subject to the following regulations:—

1. That every student paying at the commencement of his First Year a Fee of £10, 10s., will be entitled to admission to the Infirmary, and also to attend Courses of Clinical Instruction during the Winter and Summer of said year.

2. That every student who has thus paid £10, 10s., and shall at the commencement of his Second Year pay a further Fee of £10, 10s., will have the privilege of admission to the Infirmary, and to the several courses of Clinical Instruction during his lifetime.

3. That the Fee for Hospital Attendance and Clinical Instruction for Six Months only be £7, 7s.

4. That the Fee for Hospital Attendance and Clinical Instruction for Three Months only be £4, 4s.

5. Any student who shall have paid Fees to the amount of £21, or upwards, in the payments as stated above, shall be entitled to a Ticket admitting him to the Infirmary, and to the Clinical Instruction during his lifetime.

6. There shall be two Courses of Clinical Instruction—one in the Winter and the other in the Summer Session.

Pathology.—Dr. Joseph Coats gives a Course of Lectures on Pathology on Monday, Wednesday, and Friday during the Winter Session; and also a Course of Practical Pathology daily during the Summer Session. The fee for the combined Course is £4, 4s.

Students who have taken the Hospital Ticket previous to 1st October, 1876, will continue at the scale of Fees then in use, but an additional payment of £10, 10s. will make them perpetual students of the Hospital, and admit also to the Clinical Classes under the above rules.

Students who have completed their Clinical Course elsewhere shall be

permitted to enter for a six months' course of the *Hospital only*, on payment of a Fee of £2, 2s.

OUT-DOOR VISITATION.—Senior Students who have passed their Third Professional Examination are permitted to visit the sick poor in the Anderston district, under the supervision of certain Professors of the University and assistants.

ROYAL INFIRMARY. — Hour of Visit, 9 a.m. Clinical Lectures given by the Physicians and Surgeons. Fees for Hospital attendance and Clinical Instruction—same as in the Western Infirmary, excepting fee for six months, which is £6, 6s. in the Royal Infirmary.

EYE INFIRMARY, 170 Berkeley Street.—Hour of visit, 1 P.M. daily. Fee for six months, £2, 2s.; to those attending, or who have attended, the Lectures on the Eye delivered in the University, free.

There are also Dispensaries for Diseases of the Skin and Ear, and in the Royal Lunatic Asylum, Gartnavel, Clinical Instruction in Insanity is given.

CLASSES IN THE FACULTY OF MEDICINE.

The Faculty of Medicine embraces the classes of Practice of Medicine, Anatomy, Natural History, Surgery, Midwifery, Chemistry, Botany, Materia Medica, Institutes of Medicine, Medical Jurisprudence, Clinical Surgery, Clinical Medicine, and Pathology, on all of which attendance is required for the Degree of M.B. To this Faculty also belong the Lectureship on Diseases of the Eye, the Lectureship on Insanity, and the courses of instruction necessary for the Diploma in Public Health.

REGULATIONS FOR GRADUATION IN MEDICINE.

Three Medical Degrees are conferred by this University, viz. :—Bachelor of Medicine (M.B.) ; Master in Surgery (C.M.) ; and Doctor of Medicine (M.D.) ; all of which are recognized by the Medical Act as qualifying for practice throughout the British dominions, and for admission to the Army, Navy, and Public Medical Service.

The Degrees of Bachelor of Medicine and Master in Surgery may be obtained by Candidates of the age of 21 years who have complied with the regulations as to Education and Examination.

The Degree of Master in Surgery shall not be conferred on any person who does not at the same time obtain the Degree of Bachelor of Medicine, nor shall the Degree of Bachelor of Medicine be conferred on any one who does not at the same time obtain the Degree of Master in Surgery.

The following rules and directions apply to the Degrees of Bachelor of Medicine and Master in Surgery :—

A.—EXAMINATION OF MEDICAL STUDENTS IN GENERAL EDUCATION AND REGISTRATION BY THE MEDICAL COUNCIL.

The Candidate for the Degrees of Bachelor of Medicine and Master in Surgery must have been registered in the books of the General Medical Council at least four years prior to the date of his graduation. In order to be so registered he must transmit to James Robertson, Esq., the Scottish Branch Registrar, 1 George Square, Edinburgh, together with a printed form of application which may be obtained from the Assistant Clerk (Matriculation Office), a certificate of having passed a satisfactory Preliminary Examination in English, Latin, Arithmetic, the Elements of Mathematics, and the Elements of

Mechanics, along with one of the following subjects, viz., French. German, Greek, or Logic.

A Degree in Arts (not being an Honorary Degree) of any of the Universities of England, Scotland, and Ireland, and also a Degree in Arts of any Colonial or Foreign University which may for this purpose have been specially recognized by the University Court, shall exempt Candidates from all preliminary examination.

The Examination in General Education may be passed either in this University* or at any University or Board of which the examinations are recognized by the General Medical Council as entitling to registration.† But while a Certificate of having passed any recognized Preliminary Examination entitles to registration in the books of the General Medical Council. the University only accepts these Examinations *pro tanto*, and exacts examination in every case on such subjects required by the regulations of the University as are not embraced in the certificates presented from other Examining Boards, or which, though included therein, are not of similar extent to the same subjects as prescribed by the University. In such cases this Examination required by the University must be passed by the Candidates before admission to their First Professional Examination.

This registration in the books of the Medical Council, which is imperative on Candidates for any legal qualification to practise whatsoever, is quite distinct from Matriculation or other registration of students in the books of the University.

The following is a more detailed notice of the subjects of the Examination in General Education referred to above :—

I. Registration Subjects.—The Student must pass in all the subjects of this division before Registration with the Branch Registrar of the Medical Council. The subjects may be passed at one or more Examinations. For fees and dates of this Examination see page 17—

A 1. English.—(1) Writing correctly a passage to dictation. (2) Composition of a short essay on a given theme. (3) Questions on Grammar, with analysis of sentences and the derivation and meaning of some common English words.

B 2. Latin.—Virgil, *Æneid*, Book III., and Cæsar *de Bello Gallico*, Book V. Translations from the above. Translation of passages from works not prescribed, and of English passages into Latin,—the principal Latin words being supplied. Questions on Grammar and Construction.

* A Local Centre in connection with this Examination has been established in the University College of North Wales, Bangor. Candidates who prefer to sit for examination there must intimate their desire when returning schedule of entry to Glasgow. Such Candidates are required, on taking their seats at Bangor, to pay to the College Authorities there a special fee of 5s. This is in addition to the ordinary fee of 10s., payable at Glasgow, as mentioned at page 17. The Examinations are held simultaneously in Bangor and Glasgow.

† For a list of such Examining Boards, see p. 19.

C 3. ARITHMETIC.—The Common Rules, including Vulgar and Decimal Fractions.

C 4. ELEMENTS OF MATHEMATICS.—
(*a*) Algebra (including Simple Equations), and Euclid, Book I.
(*b*) Euclid, Books II. and III.*

5. ELEMENTARY MECHANICS OF SOLIDS AND FLUIDS.—
D Elementary Kinematics, Statics, Kinetics, and Hydrostatics. Text-books—Bottomley's Dynamics (Collins' Series); Blaikie's Elements of Dynamics.

6. ANY one of the following:—Greek, French, German, Logic, as prescribed under II. (Optional subjects for M.B. and C.M.)

In addition to the above-mentioned Preliminary Examination, Candidates for the Degrees of Bachelor of Medicine and Master in Surgery are required to undergo, PREVIOUS TO THEIR FIRST PROFESSIONAL EXAMINATION (and, it is recommended, as far as possible previous to the commencement of professional study), an examination in one of the following other than the one selected under 6 above: Greek, French, German, Higher Mathematics, Natural Philosophy, Logic, Moral Philosophy, as detailed below.

II. Optional Subjects for M.B. and C.M.—

1. GREEK.—*Memorabilia* of Xenophon, Book I., and the Gospel according to St. Luke. Translation of passages from works
E not prescribed, and of English passages into Greek—the principal Greek words being supplied. Questions on Grammar.

2. FRENCH.—Montesquieu's *Considerations sur les causes de la grandeur des Romains, et de leur decadence.* Translation and exercises as in the Latin and Greek.

3. GERMAN.—Schiller's *Wilhelm Tell.* Translation and exercises as in the other languages.

4. HIGHER MATHEMATICS.—Euclid, Books I. to VI.; Algebra,
C including Quadratic Equations, and the Rudiments of Trigonometry.

5. NATURAL PHILOSOPHY.—Part II. of Todhunter's Natural
D Philosophy for Beginners, viz., Sound and Heat, omitting chapters xii. xiii. in Sound, and in Heat from sec. 732 to 746.

F 6. LOGIC.—Jevons' Elementary Lessons on Logic.

G 7. MORAL PHILOSOPHY.—Herbert Spencer's Data of Ethics.

* The subjects under (*b*) are not required for Registration; they may be passed at the same time as those under (*a*) or at a subsequent Examination, BUT THEY MUST BE PASSED BEFORE THE FIRST PROFESSIONAL EXAMINATION.

A certificate of having passed, at the Examinations for the Degree of M.A., or B.Sc., in English, Latin, Mathematics, Natural Philosophy, Greek, Logic, or Moral Philosophy, will be accepted instead of examination in the subjects marked A, B, C, D, E, F, G, respectively.

III. Subjects for Degree of M.D.—The Candidate for the Degree of M.D., if not a graduate in Arts, must have passed a satisfactory Examination in Greek and in Logic or Moral Philosophy, and in one at least of the following subjects, viz.:—French, German, Higher Mathematics, Natural Philosophy, and Natural History.

B.—PROFESSIONAL EDUCATION.

1. *Duration and Constitution of the Curriculum.*—No one shall be admitted to the Degree of Bachelor of Medicine or Master in Surgery, who has not been engaged in medical and surgical study for four years,—the medical session of each year, or *Annus Medicus*, being constituted by at least two courses of not less than one hundred lectures each, or by one such course and two courses of not less than fifty lectures each; but in the case of the Clinical Courses, it shall be sufficient that the lectures be given at least twice a week during the prescribed periods.

One at least of the four years of medical and surgical study above required must be in the University of Glasgow.

Another of such four years must be either in the University of Glasgow, or in some other University entitled to give the degree of Doctor of Medicine.

Attendance during at least six winter months on the medical or surgical practice of a general hospital which accommodates at least eighty patients, and during the same period on a course of Practical Anatomy, may be reckoned as one of such four years; and to that extent shall be held equivalent to one year's attendance on courses of lectures, as above prescribed.

One year's attendance on the Lecturers or Teachers of Medicine in the Hospital Schools of London, or in the School of the College of Surgeons in Dublin, may be reckoned as one of such four years; and to that extent shall be held as attendance on courses of lectures as above prescribed.

Attendance on the lectures of any private Teacher or Teachers of Medicine whose lectures have, by regulation of the University Court, with consent of the Chancellor of the University, been recognized for the purpose of graduation in the University, may

be reckoned in place of the year's attendance last above mentioned, or as part thereof, as the case may be.

Candidates may, to the extent of four of the departments of medical study above required, attend in such year or years of their medical and surgical studies as may be most convenient to them, the lectures of the Teachers of Medicine specified in the two immediately preceding paragraphs.*

All Candidates availing themselves of the permission to attend the lectures of private Teachers, and not being at the time matriculated students of the University, must, at the commencement of the year of such attendance, enrol their names in a book kept by the University for that purpose, paying a fee of one-half the amount of the matriculation fee paid by students of the University; but they shall not be thereby entitled to any of the privileges of a matriculated student of the University.

The fee for attendance on the lectures of any private Teacher, with a view to graduation, shall not be of less amount than that exigible by Medical Professors of the University for the same course of instruction. (*The fees must be paid at the commencement of the course.*)

No attendance on Lectures shall be reckoned, if the Teacher gives instruction in more than one of the prescribed branches of study, except in those cases where Professors of the University are at liberty to teach more than one branch.

2. *Required Courses of Instruction.*—Every Candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall give sufficient evidence by certificates:—

(1.) That he has studied each of the following departments of medical science, viz.:—

ANATOMY, - - - - - -	During courses including not less than one hundred lectures.
CHEMISTRY, - - - - - -	
MATERIA MEDICA and PHARMACY,	
INSTITUTES OF MEDICINE or PHYSIOLOGY, - - - - - -	
PRACTICE OF MEDICINE, - -	
SURGERY, - - - - - -	
MIDWIFERY and the DISEASES peculiar to WOMEN and CHILDREN; two courses of Midwifery, of three months each,† being reckoned equivalent to a six months' course, provided different departments of Obstetric Medicine be taught in each of the courses,	

* In Provincial Medical Schools where there are no Lecturers recognized by the University Court, a Candidate can complete only one *Annus Medicus*, constituted by attendance at a General Hospital accommodating not fewer than 80 patients, along with a course of Practical Anatomy.

† The Fee for each course of Midwifery of three months is £2 2s.

PATHOLOGICAL ANATOMY, during a three months' course of lectures, together with a supplemental course of Practice of Medicine or Clinical Medicine; or a course of not less than one hundred lectures on General Pathology,	
PRACTICAL ANATOMY, - - -	Six months.
PRACTICAL CHEMISTRY, - -	Three months.
PRACTICAL MIDWIFERY, - -	Three months at a Midwifery Hospital, or a Certificate of Attendance on six cases from a Registered Medical Practitioner.
CLINICAL MEDICINE, - - -	During courses of six months, or two courses of three months; lectures being given at least twice a week.
CLINICAL SURGERY, - - -	
MEDICAL JURISPRUDENCE, - -	During courses including not less than fifty lectures
BOTANY, - - - - -	
ZOOLOGY with COMPARATIVE ANATOMY, - - - - -	

(2.) That he has attended for at least two years the medical and surgical practice of a general hospital, either at Glasgow or elsewhere, which accommodates not fewer than eighty patients, and possesses a distinct staff of physicians and surgeons.

(3.) That he has attended, during a course of not less than fifty hours' instruction, the class of Practical Materia Medica in the University of Glasgow; or a similar class in a University or School of Medicine, attendance on which is recognized by the Ordinance; or a similar class conducted by a teacher recognized by the University Court under the Ordinance; or, that he has been engaged for at least three months, by apprenticeship or otherwise, in compounding and dispensing drugs at the laboratory of an hospital, dispensary, member of a Surgical College or Faculty, of a licentiate of the London or Dublin Society of Apothecaries, or of a member of the Pharmaceutical Society of Great Britain. [Students are recommended to take the class of Pharmacology and Practical Pharmacy in the summer before their attendance on the course of Materia Medica; but attendance on such a course cannot be substituted for attendance on the course of systematic Lectures on Materia Medica, which must be taken before the third Professional Examination.]

(4.) That he has attended for at least six months, by apprenticeship or otherwise, the out-practice of an hospital, or

the practice of a dispensary, or of a physician, surgeon, or member of the London or Dublin Society of Apothecaries.

VACCINATION.—The candidate must produce a certificate from a recognized Vaccination department in an hospital, dispensary, or other public institution, that he has performed the operation successfully under the Teacher's supervision; that he is familiar with the different stages of the vaccine vesicle, and with the mode of preserving lymph, and is generally well instructed in the subject.*

C.—PROFESSIONAL EXAMINATIONS.

By orders of Her Majesty in Council, dated 13th August, 1877, 23rd August, 1883, 27th January, 1885, and 26th March, 1885, the following are the arrangements for Professional Examinations:—

1. Every candidate for the Degrees of Bachelor of Medicine and Master in Surgery shall be examined both in writing and *viva voce*, First, on Chemistry, Botany, and Natural History; Second, on Anatomy and Physiology; Third, on Regional Anatomy, and Materia Medica and Pharmacy; and Fourth, on Surgery, Clinical Surgery, Medicine, Clinical Medicine, Pathology, Midwifery, and Medical Jurisprudence. The Examination in Chemistry shall include Practical Chemistry; and the Examinations in Anatomy and Physiology shall include Practical Anatomy, Histology, and Practical Physiology; and the Examination in Surgery shall include Operative Surgery.
2. Students may appear for examination in the first of the foregoing divisions of subjects who have completed their attendance on the required courses during one winter and one summer session: provided always that students shall not be admitted to such examination at an earlier date than the period of examination immediately preceding their second winter session of professional study; and that students who commenced their medical studies in the summer session shall not be admitted to a degree in medicine unless their course of study, subsequent to the completion of the summer session in which they commenced their medical studies, shall not be less than the minimum course of four years prescribed by this Ordinance.
3. Students who have passed the first examination may appear for examination in the second division of subjects, after having completed their attendance on the requisite courses

* The recognized Vaccine Departments in Glasgow are—Western Infirmary, Royal Infirmary, and Faculty of Physicians and Surgeons.

(including those of the subjects of examination) after the lapse of two winter and three summer sessions from the time of the commencement of their studies; provided always that students who have commenced their medical studies with a winter session may appear for examination in the second division of subjects after the lapse of two winter and two summer sessions from the time of the commencement of their studies.

4. Students who have passed the two previous examinations may appear for examination in the third division of subjects at any of the terms fixed for examination by the Senate, after the conclusion of the third winter session of attendance upon Medical Classes (including those of the required subjects).
5. Students who have passed the examinations in the subjects of the three previous divisions may appear for examination in the subjects of the fourth division at the first term for the final examination after the conclusion of their Curriculum of study.

In addition, the following regulations will be observed :—

1. The examinations will be conducted by written papers and by oral examinations. A practical knowledge of the subject is also required.
2. Candidates must produce certificates of satisfactory attendance on the courses belonging to each division before presenting themselves for these examinations, and no candidate is allowed to enrol himself for the Second, Third, or Fourth examination without having passed the immediately preceding examination.
3. Previous to appearing for the final examination the candidate must produce a declaration in his own handwriting that on the day of graduation, he will have completed his twenty-first year and will not be under articles of apprenticeship.
4. At the professional examinations, candidates will as far as possible be examined orally in the alphabetical order of their surnames.
5. If any Candidate, on examination, be found unqualified, he shall not be again admitted to examination unless he shall have completed another year of medical study, or such portion of another year as may be fixed by the examiners when he is found unqualified.

The examinations are conducted by the Professors of the Faculty of Medicine, together with the other Examiners appointed by the University Court.

For Table of Fees and dates of examinations see page 17.

D.—DEGREE OF DOCTOR OF MEDICINE.

The Degree of Doctor of Medicine may be conferred on any candidate who has obtained the degree of Bachelor of Medicine, and is of the age of twenty-four years, and has been engaged, subsequently to his having obtained the degree of Bachelor of Medicine, for at least two years in attendance on an hospital, or in the Military or Naval medical service, or in medical or surgical practice: Provided always that the degree of Doctor of Medicine shall not be conferred on any person, unless he be a graduate in Arts within the fifth section of the Ordinance, or unless he shall have passed a satisfactory examination in Greek, and in Logic or Moral Philosophy, and in one, at least, of the following subjects, namely, French, German, Higher Mathematics, Natural Philosophy, and Natural History. Provided also that each candidate for the degree of Doctor of Medicine shall present an Inaugural Dissertation composed by himself to be approved by the Senatus Academicus. Such Dissertations or Theses* must be lodged with the Assistant Clerk (Matriculation Office), on or before 20th March, 20th June, or 20th October. No Thesis will be approved unless it gives evidence of original observation, or, if it deal with the researches of others, gives a full statement of the literature of the question, with accurate references and critical investigation of the views or facts cited: mere compilations will in no case be accepted. The fees for the Degree of M.D. amount to £15, 8s. (including the sum of £10, 3s. for Government stamp, etc.).

E.—REGULATIONS FOR OBTAINING A DIPLOMA IN PUBLIC HEALTH.

A special Examination will be held once in every year in subjects relating to Public Health, and will commence on the third Tuesday in October. Candidates may be admitted to examination before they have obtained a qualification to practice Medicine and Surgery, but in no case shall the Diploma be granted till the candidate is registered under the Medical Acts.

Candidates must produce evidence that, either during their Medical studies or subsequently, they have attended a Course of Lectures in which special instruction was given on Public Health, and that they have attended a Course of Analytical Chemistry specially bearing upon the subjects of examination. Candidates who have not passed an *Annus Medicus* in the University of Glasgow must, before presenting themselves for examination, have attended as Matriculated Students in this University at least two Courses of instruction, scientific or professional, bearing on the subjects of the examination. The examinations shall be written, oral, and practical.

* Candidates are requested to have their Theses bound before sending them in.

The fee for this examination shall be Five Guineas. No candidate shall be admitted to examination unless he shall have given notice of his intention to the Assistant Clerk (Matriculation Office), and paid the required fee, at least One Calendar Month previous to the examination.

If, after payment of the fee, a candidate withdraw his name, or fail to present himself at the examination, or fail to pass it, the fee shall not be returned to him, but he shall be allowed to enter for *one* subsequent examination in subjects relating to Public Health without the payment of an additional fee.

The examination for the Diploma in Public Health shall embrace the following subjects:—

Duties of Health Officer. Air and Ventilation. Food and its Adulterations. Water and Water Supply. Sewerage and Drainage. Construction of Hospitals, Public Buildings, and Dwellings. Overcrowding. Manufactories. Insalubrious Trades. Cemeteries. Nuisances. Quarantine. Disinfectants and Deodorizers. Outbreaks of Zymotic Diseases. Climate, Topographical and Seasonal; its influences in relation to Health and Disease. Geographical Distribution of Diseases. Knowledge of leading Sanitary Acts of Parliament. Vital Statistics.

The following are recommended as books for study:—

E. Parkes, *Practical Hygiene*: George Wilson, *Handbook of Hygiene*: A. H. Hassal, *On Food and its Adulterations*.

N.B.—Lectures on Public Health will be delivered in this University during each Winter Session.

Further information with regard to the Lectures on Public Health and the Examinations for the Diploma may be obtained from Dr. P. A. Simpson, Professor of Medical Jurisprudence, University of Glasgow.

F.—Table of Examinations for Degrees in Medicine to be held during Session 1889-90.

Examination.	Names to be given in and Fees paid to Assistant Clerk (Matriculation Office). Date.*	Fee.	Dates of Written Examinations and Hours at which the different Papers will be set. Printed Schedules with detailed instructions for filling up may be obtained from the Assistant Clerk (Matriculation Office). The Professional Oral Examinations follow immediately after the Written.
General Education,	19th Sept., 1889,	£0 10 0†	Wed., 2nd Oct., 1889, Arithmetic, 9—11 a.m. Latin, 12 noon—2 p.m. English, 3—5 p.m. Thur., 3rd ,, ,, Elementary Mathematics, ,, Mechanics, ,, French, ,, Fri., 4th ,, ,, Greek, ,, Logic, ,, Moral Philosophy, ,, Sat., 5th ,, ,, Higher Mathematics, ,, Natural Philosophy ,, German, ,,
First Professional,	19th Sept., 1889,	5 5 0	Monday, 7th October, 1889, Zoology at 10 a.m. Botany at 12.30 p.m. Chemistry at 3 p.m. Tuesday, 8th ,, ,, Practical Chemistry at 10 a.m., 12 noon, and 2 p.m.
Second Professional,	19th Sept., 1889,	5 5 0	Tuesday, 8th ,, ,, Physiology at 12.30 p.m. Anatomy at 3 p.m.
Third Professional,	19th Sept., 1889,	5 5 0	Wednesday, 9th ,, ,, Regional Anatomy at 10 a.m. Materia Medica at 12.30 p.m. Pathology at 3 p.m.
General Education,	12th March, 1890,	0 10 0†	Wed., 26th Mar., 1890, Arithmetic, 9—11 a.m. Latin, 12 noon—2 p.m. English, 3—5 p.m. Thur., 27th ,, ,, Elementary Mathematics, ,, Mechanics, ,, French, ,, Fri., 28th ,, ,, Greek, ,, Logic, ,, Moral Philosophy, ,, Sat., 29th ,, ,, Higher Mathematics, ,, Natural Philosophy, ,, German, ,,
First Professional,	12th March, 1890,	5 5 0	Friday, 4th April, Zoology at 10 a.m. Botany at 12.30 p.m. Chemistry at 3 p.m. Saturday, 5th ,, Practical Chemistry at 10 a.m., 12 noon, and 2 p.m.
Second Professional,	12th March, 1890,	5 5 0	Saturday, 5th ,, Physiology at 12.30 p.m. Anatomy at 3 p.m.
Third Professional,	12th March, 1890,	5 5 0	Monday, 7th ,, Regional Anatomy at 10 a.m. Materia Medica at 12.30 p.m. Pathology at 3 p.m.
Final Professional,	20th May, 1890,	5 5 0	Mon., 9th June (*Clinical Examinations begin*). Fri., 4th July (*Operative Surgery Examination begins*). Monday, 7th July, Materia Medica at 10 a.m. Medical Jurisprudence at 1 p.m. Tuesday, 8th July, Practice of Medicine ,, Pathology ,, Wednesday, 9th July, Surgery ,, Midwifery ,, The Oral Examinations will begin about the 10th July.

* When Names are not given in and Fees are not paid on or before the stated dates, a late Entry Fee of Ten Shillings must be paid before the Candidate can be enrolled for examination. A Candidate is not held to be enrolled for examination until his Name is entered, the Fee paid, and all the necessary Certificates, etc., lodged.

† Payable by Candidates who, at the date of their first enrolment for the examination, are not Matriculated Students of the University.

G.—GRADUATION.

The terms for conferring Medical and Surgical Degrees are 1st May, 31st July, and second last Thursday of November.

Candidates proceeding to Graduation, if not already Members of the General Council of the University, are required by the Act, 44 and 45 Vict. Ch. 40, to pay to the Registrar of the General Council the Registration Fee, and furnish to him the particulars required for their enrolment in the General Council. This should in all cases be done at least two clear days before the day of Graduation.

In accordance with the Promissory Oaths Act, 1868, a Declaration in the following English form is now substituted for the Latin Oath, or Sponsio Academica, formerly required to be taken and subscribed by every Candidate on Graduation :—

I do solemnly and sincerely declare, that, as a Graduate in Medicine of the University of Glasgow, I will exercise the several parts of my profession, to the best of my knowledge and abilities, for the good, safety, and welfare of all persons committing themselves, or committed to my care and direction ; and that I will not knowingly or intentionally do anything or administer anything to them to their hurt or prejudice, for any consideration, or from any motive whatever. And I further declare, that I will keep silence as to anything I have seen or heard while visiting the sick which it would be improper to divulge. And I make this solemn declaration in virtue of the Provisions of the Promissory Oaths Act, 1868, substituting a Declaration for Oaths in certain cases.

LIST OF EXAMINING BODIES WHOSE EXAMINATIONS FULFIL THE CONDITIONS OF THE MEDICAL COUNCIL AS REGARDS PRELIMINARY EDUCATION.

N.B.—The Certificates of these Bodies admit to matriculation and study in the University of Glasgow; but Candidates for Degrees must conform to the regulations of the University as laid down under A, page 7.

I.—Universities in the United Kingdom.

UNIVERSITY OF OXFORD.—(1) Junior Local Examinations; Certificate to include Latin and Mathematics, and also one of the following optional subjects:—Greek, French, German. (2) Senior Local Examinations; Certificate to include Latin and Mathematics. (3) Responsions. (4) Moderations. (5) Examination for a Degree in Arts.

UNIVERSITY OF CAMBRIDGE.—(6) Junior Local Examinations; Certificate to include Latin and Mathematics, and also one of the following optional subjects:—Greek, French, German. (7) Senior Local Examinations; Certificate to include Latin and Mathematics. (8) Higher Local Examinations. (9) Previous Examination. (10) Examination for a Degree in Arts.

UNIVERSITY OF DURHAM.—(11) Examination for Certificate of Proficiency. (12) Examination for Students at the end of their first year. (13) Examination for a Degree in Arts.

UNIVERSITY OF LONDON—(14) Matriculation Examination. (15) Preliminary Scientific (M.B.) Examination. (16) Examination for a Degree in Arts or Science.

VICTORIA UNIVERSITY.—(17) Preliminary Examination; Latin to be one of the subjects. (18) Entrance Examination in Arts, to include all the subjects required.

UNIVERSITY OF EDINBURGH.—(19) Local Examinations (Junior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (20) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (21) Preliminary Examination for Graduation in Science or Medicine and Surgery. (22) Examination for a Degree in Arts.

UNIVERSITY OF ABERDEEN.—(23) Local Examinations (Junior Certificate); Certificate to include all the subjects required. (24) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French,

German. (25) Preliminary Examination for Graduation in Medicine or Surgery. (26) Examination for a Degree in Arts.

UNIVERSITY OF GLASGOW.—(27) Local Examinations (Junior Certificate); Certificate to include all the subjects required. (28) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (29) Preliminary Examination for Graduation in Medicine or Surgery. (30) Examination for a Degree in Arts.

UNIVERSITY OF ST. ANDREWS.—(31) Local Examinations (Senior Certificate); Certificate to include English Literature, Arithmetic, Algebra, Geometry, Latin, and also one of the following optional subjects:—Greek, French, German. (32) Local Examinations (Junior Certificate), to include all the subjects required. (33) Preliminary Examination for Graduation in Medicine or Surgery. (34) Examination for a Degree in Arts.

UNIVERSITY OF DUBLIN.—(35) Public Entrance Examination. (36) General Examination at end of Senior Freshman year. (37) Examination for a Degree in Arts.

QUEEN'S UNIVERSITY IN IRELAND.—(38) Local Examinations for Men and Women; Certificate to include all the subjects required by the General Medical Council. (39) Entrance or Matriculation Examination. (40) Previous Examination for B.A. Degree. (41) Examination for a Degree in Arts.

ROYAL UNIVERSITY OF IRELAND.—(42) Matriculation Examination.

OXFORD AND CAMBRIDGE SCHOOLS' EXAMINATION BOARD.—(43) Certificate to include the following subjects, an adequate knowledge of English Grammar and Orthography, as shown in the course of the Examination, to the satisfaction of the Examiners, being held as conforming to the requirements of the Medical Council in regard to those subjects:—Arithmetic, including Vulgar and Decimal Fractions; Algebra, including Simple Equations; Geometry, including the first two books of Euclid; Latin, including Translation and Grammar. Also one of these optional subjects:—Greek, French, German.

II.—Other Bodies named in Schedule (A) *to the* MEDICAL ACT, 1858.

APOTHECARIES' SOCIETY OF LONDON.—(44) Examination in Arts.

ROYAL COLLEGES OF PHYSICIANS AND SURGEONS OF EDINBURGH.—(45) Preliminary (combined) Examination in General Education, conducted by the Educational Institute of Scotland.

FACULTY OF PHYSICIANS AND SURGEONS OF GLASGOW.—(46) Preliminary Examination in General Literature.

ROYAL COLLEGE OF SURGEONS IN IRELAND.—(47) Preliminary Examination: Certificate to include Mathematics.

III.—Examining Bodies, in the United Kingdom, not included in Schedule (A) *to the* MEDICAL ACT (1858).

COLLEGE OF PRECEPTORS.—(48) Examination for a First-Class Certificate, or Second-Class Certificate of First or Second Division, Algebra, Geometry, Latin, and a Modern Language, having been taken.

QUEEN'S COLLEGE, BELFAST.—(49) Matriculation Examination.

QUEEN'S COLLEGE, CORK.—(50) Matriculation Examination.

QUEEN'S COLLEGE, GALWAY.—(51) Matriculation Examination.

INTERMEDIATE EDUCATION BOARD OF IRELAND.—(52) Junior Grade Examination. (53) Middle Grade Examination. (54) Senior Grade Examination. Certificate in each case to include all the subjects required by the General Medical Council.

ST. DAVID'S COLLEGE, LAMPETER.—(55) Responsions Examination, to include all the subjects required.

EDUCATIONAL INSTITUTE OF SCOTLAND.—(56) Preliminary Medical Examination.

PHARMACEUTICAL SOCIETY OF GREAT BRITAIN.—(57) Preliminary and Minor Examinations *pro tanto.*

PHARMACEUTICAL SOCIETY OF IRELAND.—(58) Preliminary Examination *pro tanto.*

SCHOOLS LEAVING CERTIFICATES.—(59) Three Grades.

IV.—Indian, Colonial, and Foreign Universities and Colleges.

UNIVERSITY OF CALCUTTA.—(60) Entrance Examination; Certificate to include Latin.

UNIVERSITY OF MADRAS.—(61) Entrance Examination; Certificate to include Latin.

UNIVERSITY OF BOMBAY.—(62) Entrance Examination; Certificate to include Latin.

CEYLON MEDICAL COLLEGE.—(63) Preliminary Examination (Primary Class).

UNIVERSITY OF M'GILL COLLEGE, MONTREAL.—(64) Matriculation Examination.

UNIVERSITY OF BISHOP'S COLLEGE, MONTREAL.—(65) Matriculation Examination.

UNIVERSITY OF TORONTO.—(66) Matriculation Examination.

UNIVERSITY OF TRINITY COLLEGE, TORONTO.—(67) Matriculation Examination.

UNIVERSITY OF QUEEN'S COLLEGE, KINGSTON.—(68) Matriculation Examination.

UNIVERSITY OF VICTORIA COLLEGE, UPPER CANADA.—(69) Matriculation Examination.

WESTERN UNIVERSITY OF ONTARIO.—(70) Entrance Examination; Certificate to include all the subjects required for registration.

COLLEGE OF PHYSICIANS AND SURGEONS OF ONTARIO.—(71) Preliminary Examination; Certificate to include all the subjects required for registration.

UNIVERSITY OF MANITOBA.—(72) Previous Examination.

UNIVERSITY OF FREDERICTON, NEW BRUNSWICK.—(73) Matriculation Examination.

UNIVERSITY OF KING'S COLLEGE, NOVA SCOTIA.—(74) Matriculation Examination. (75) Responsions.

UNIVERSITY OF HALIFAX, NOVA SCOTIA.—(76) Matriculation Examination.

DALHOUSIE COLLEGE AND UNIVERSITY, HALIFAX, NOVA SCOTIA.—(77) Matriculation and Sessional Examinations.

UNIVERSITY OF CALIFORNIA.—(78) Examination in Department of Letters.

UNIVERSITY OF MELBOURNE.—(79) Matriculation Examination.

UNIVERSITY OF SYDNEY.—(80) Matriculation Examination.

UNIVERSITY OF ADELAIDE.—(81) Matriculation Examination.

TASMANIAN COUNCIL OF EDUCATION.—(82) Examination for the Degree of Associate of Arts; Certificate to include Latin and Mathematics.

UNIVERSITY OF THE CAPE OF GOOD HOPE.—(83) Matriculation Examination. (84) Examination for a Degree in Arts.

UNIVERSITY OF OTAGO.—(85) Preliminary Examination.

UNIVERSITY OF NEW ZEALAND.—(86) Entrance Examination.

CHRIST'S COLLEGE, CANTERBURY, NEW ZEALAND.—(87) Voluntary Examinations. Certificate to include all the subjects required by the General Medical Council.

CODRINGTON COLLEGE, BARBADOES.—(88) English Certificate for Students of two years' standing, and Latin Certificate or "Testamur."

GERMANY AND OTHER CONTINENTAL COUNTRIES.—(89) Gymnasial Abiturienten-Examen, and other corresponding Entrance Examinations to the Universities.

GYMNASIA OF THE CIRCUIT OF DORPAT.—(90) Examinations of Maturity.

BURSARIES IN CONNECTION WITH THE FACULTY OF MEDICINE.

BURSARIES IN THE FACULTY OF MEDICINE.

Foundation.	No. of Bursaries.	Period of Tenure.	Approximate Annual Value of each.
Brisbane,	1	4	£45
Davidson,	1	3	£35
Malcolm Kerr (Chem.).	1	3	£18
Logan,	1	4	£15
Lorimer,	4	3	£25 & £18
Macarthur,	1	2	£20
Macfarlane,	1	3	£40
Marshall,	1	4	£17
Merchants' House.	2	4	£25
Monteith, John.	2	2	£18
Rainy,	2	2	£20
Walton,	1	4	£36
Weir, Andrew,	1	1	£18
BURSARIES IN THE FACULTIES OF ARTS, LAW, OR MEDICINE.			
Macdonald,	2	4	£16
BURSARIES IN THE FACULTIES OF THEOLOGY, LAW, OR MEDICINE.			
Armagh,	3	3	£25
Old Library.	1	4	£11 2s. 2¾d.

PRIZES IN THE FACULTY OF MEDICINE.

Senior Arnott Prize,	£25	awarded annually.
Junior Arnott Prize,	£15	,, ,,
Brunton Memorial Prize,	£10	,, ,,
Dobbie-Smith Gold Medal,		,, biennially.

John Reid Prize, £25 tenable for one or more years.

The following Bursaries, Fellowships, and Scholarships are also tenable by Students of Medicine :—Denny Bursaries, James Ferguson Bursaries, John Gibson Bursaries, Taylor Bursaries, George A. Clark Scholarships, John Clark (Mile-end) Scholarships, Eglinton Fellowships, William Ening Fellowships, Luke Fellowship, and Scott Scholarship. (*See University Calendar.*)

BURSARIES AND PRIZES IN MEDICINE,

Open to competition during Session 1889-90.

1. *Lorimer Bursary*, annual value £25, tenable for three years' open to medical students entering on their second session.

2. *Rainy Bursary*, annual value £20, tenable for two years, open to students entering on their third session of medical study.

3. *Logan Bursary*, annual value £15, tenable for four years. Candidates are required to undergo the Competitive Examination in Arts subjects for Bursaries, held at opening of session.

4. *Kerr (Chemistry) Bursary*, annual value £18, tenable for three years. Examination in October, same as for M.A. with Honours in Natural Science.

5. *Davidson Bursary*, annual value £35, tenable for three years. Awarded in accordance with results of First Professional Examination, but preference being given to founder's relatives and natives of Muirkirk, Dalserf, Lesmahagow, and London.

6. *John Monteith Bursary*, annual value about £18, tenable for two years, will be awarded in November to the student who gains the highest number of marks in Anatomy and Physiology in April and October, 1888.

7. *Andrew Weir Bursary*, annual value £18, tenable for one year, will be awarded in November in accordance with results of Second and Third Professional Examinations.

8. *Macarthur Bursary*, annual value £20, tenable for two years.

9. *Junior Arnott Prize*, of about £15, for an examination in General Physics, open to students of the first and second years of their medical studies.

10. *Senior Arnott Prize* of £25, for an examination in Physiological Physics, open to students of the third and fourth years of their medical studies.

11. *Brunton Memorial Prize* of about £10 is given to the most distinguished graduate in medicine of the year.

DATES OF EXAMINATIONS.

The Examinations for the Bursaries Nos. 1 and 2 in the above list will be held on Monday and Tuesday, 7th and 8th October, at ten A.M. each day; for No. 3, on Tuesday, 29th October, and three following days; for No. 4, on a day in October or November to be afterwards fixed; and for the Prizes Nos. 9 and 10, on Saturday, 9th November, at two P.M.

DATES FOR SENDING IN APPLICATIONS.

Candidates for the Bursaries Nos. 1 and 2 are required to give in their names to the Assistant Clerk (Matriculation Office) not later than 19th September; candidates for No. 3 not later than 22nd October; and for No. 4 and Prizes 9 and 10, not later than 1st October; applications for No. 8 must be sent in prior to 15th April, to Mr. Alex. Duncan, 242 St. Vincent Street, Glasgow.